

Dr. SEBASTIAN KRIEGER

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SUMMARY

- Analytical, dedicated and detail-oriented problem-solver with strong and diverse academic background.
- Applied experience in data analysis and developing machine learning models.
- Tech lead in projects that implemented end-to-end ETL pipelines involving data acquisition, transformation, quality control, database development.
- Self-taught computer programmer: Python developer since version 2.5.
- Familiar with agile practices like Scrum and test-driven development (TDD).
- Comfortable working collaboratively in cross-cultural and multi-disciplinary teams in the office as well as remotely.
- Doctor of science in oceanography with emphasis in geophysical fluid dynamics and satellite remote sensing.
- Excellent verbal and written communication skills both in English and Portuguese; conversational fluency in French, German and Spanish.

SELECTED WORK & RESEARCH EXPERIENCE

2018–present **Bloomberg**

São Paulo, SP

Data scientist

Responsible for managing end-to-end data workflows, including pre- and post-publishing quality control • Implementing and monitoring ETL pipelines that handle millions of records per day • Machine learning model development, e.g. financial conditions indicator for Brazil, agriculture crop yields forecast, anomaly detection • Co-organized a hackathon event for clients and university students • Mentor colleagues in applying computer programming best practices • Support journalists with data-driven news • Continuous research for data products expansion.

2016–present **nublia**

São Paulo, SP

Solopreneur (concurrent with other activities)

Digital transformation, data science and machine learning consultancy and training • Design and implementation of ETL pipelines • Data science, data analytics and business intelligence training for cohorts of 20+ students

2002–2021 **Formula 1 São Paulo Grand Prix**

São Paulo, SP

Race-secretary, contractor (concurrent with other activities)

Liaised information flux among FIA officials and local organizers • Assisted the Clerk of the Course and his deputies • Facilities and ceremonials set-up

Deputy race-secretary, contractor (concurrent with other activities)

2016 **Rio 2016 Organising Committee for the Olympic and Paralympic Games**

Rio de Janeiro, RJ

Sport Information Coordinator – Canoe sprint/para-canoe

Supervised 10 volunteers • Published and distributed sporting information • Assisted athletes, team members, umpires and international federation officials • Reviewed team leaders' and games officials' guides • Set up competition installations (field of play).

2014–2016 **Centro de Biologia Marinha, Universidade de São Paulo**

São Sebastião, SP

Postdoctoral research fellow

Mined and analyzed georeferenced data • Implemented MySQL database for georeferenced data storage and management • Performed *in situ* field measurements • Implemented coastal hydrodynamic model • Taught lectures and mentored students • CAPES fellow.

2009–2014 **Instituto Oceanográfico**, Universidade de São Paulo
 São Paulo, SP

Sc.D. graduate student

Mined and analysed satellite remote sensing images • Developed signal de-noising filter using discrete wavelet transforms • Developed geometric feature detector • Taught short courses on Python • Co-organized scientific symposium • Undergraduate teaching assistant • Undergraduate student thesis co-adviser. • CAPES and CNPq fellow.

2008–2009 **Bermuda Institute of Ocean Sciences**
 Saint George, Bermuda

Trainee/research scholar

Performed independent research on influence of large-scale waves on chlorophyll concentration using satellite images • Gave series of short talks • Nippon Foundation/Partnership for Observation of the Global Oceans fellow.

EDUCATION	2009–2014	Sc.D. Physical Oceanography <i>Instituto Oceanográfico, Universidade de São Paulo</i>
	2008–2009	Pg.C. Ocean Observatories <i>Bermuda Institute of Ocean Sciences</i>
	2006–2008	M.Sc. Physical Oceanography <i>Instituto Oceanográfico, Universidade de São Paulo</i>
	2000–2004	B.Sc. Physics <i>Instituto de Física, Universidade de São Paulo</i>
	1998–1999	Industrial Business Management vocational training <i>Colégio Humboldt, Instituto de Formação Profissional Administrativa</i>

SELECTED COMPLIMENTARY EDUCATION	Jun 2023	Scrum Foundations <i>Scrum Alliance</i> . Credential ID 001540195
	Nov 2021	AI Product Manager <i>Udacity</i> . Credential ID PLDDTJKK
	Apr 2021	Venture Deals <i>Kauffman Fellows & TechStars</i> . Credential ID 10581-489738
	May/2014	Mini-school on Dynamical Systems in Biology <i>International Centre for Theoretical Physics, South American Institute for Fundamental Research</i>

SKILLS AND INTERESTS

Data analysis	Data mining, dynamical systems, K-nearest neighbours, multi-variate linear and logistic regressions, artificial neural networks, principal component analysis, data visualization, wavelet and Fourier spectral analysis, web scraping.
Computer programming	Python, MATLAB/Octave, SQL, PHP, Visual Basic, HTML, CSS, FORTRAN, JavaScript.
Databases	PostgreSQL, MySQL/MariaDB, SQLite.
Rowing	National and continental rowing umpire accredited by <i>Confederação Brasileira de Remo</i> (CBR) and <i>Confederación Sudamericana de Remo</i> (CSAR).
Volunteering	English tutor at <i>Cidadão Pró-Mundo</i> since 2019.
Hobbies	Woodwork, sourdough bakery
Languages	Native (Brazilian) Portuguese Independent English, German, French Basic Spanish